

In the United States Patent and Trademark Office

Serial Number:

Appn. Filed: December 16, 2003

Applicant(s): Rajeev Sharma and Namsoon Jung

Appn. Title: A METHOD AND SYSTEM FOR IMMERSING FACE IMAGES INTO A VIDEO SEQUENCE

Examiner/GAU:

Mailed: December 16, 2003

At: State College, PA

Information Disclosure Statement

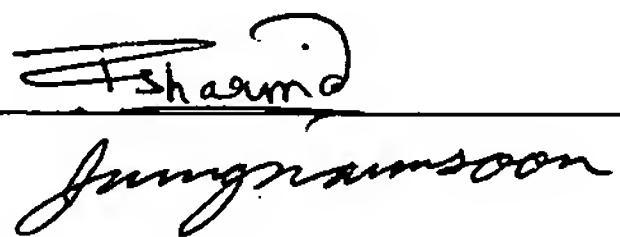
Commissioner for Patents
Washington, District of Columbia 20231

Sir:

Attached is a completed Form PTO/SB/08(A&B) and copies of the pertinent parts of the references cited thereon. Following are comments on any non-English-language references pursuant to Rule 98:

Very respectfully,

Applicant(s):



Enc.: PTO-1449 & References

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Complete if Known**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1

of 3

Application Number

Filing Date

First Named Inventor

Art Unit

Examiner Name

December 16, 2003

Rajeev Sharma

Attorney Docket Number AI-0017-YOU

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (<i>if known</i>)			
		US- 4305131	Dec. 8,1991	Best	364/521
		US- 4569131	Feb. 11,1986	Falk	364-521
		US- 4975960	Dec. 4,1990	Petajan	381/43
		US- 5012522	Apr. 30,1991	Lambert	382/2
		US- 5715325	Feb. 3,1998	Bang et al.	382/118
		US- 5816823	Oct. 6,1998	Naimark et al.	434/307
		US- 5861906	Jan. 19,1999	Dunn et al.	348/7
		US- 5894320	Apr. 13,1999	Vancelette	348/7
		US- 6065042	May 16,2002	Reimer et al.	709/203
		US- 6184926	Feb. 6,2001	Khosravi et al.	348/239
		US- 6301370	Oct. 9,2001	Steffens et al.	382/103
		US- 6345293	Feb. 5,2002	Chaddha	709/219
		US- 6404900	Jun. 11,2002	Qian et al.	382/103
		US- 60/369279	Apr. 2,2002	Sharma	
		US- 60/399246	Jul. 29,2002	Sharma	
		US- 60/402817	Aug. 12,2002	Sharma	
		US- 60/409435	Sep. 10,2002	Sharma	
		US- 60/421717	Oct. 28,2002	Sharma	
		US- 2001/0056574 A1	Dec. 27,2001	Richards	725/36

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (<i>if known</i>)				

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<p>Substitute for form 1449/PTO</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p><i>(Use as many sheets as necessary)</i></p>	<p>Complete if Known</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Application Number</td> <td></td> </tr> <tr> <td>Filing Date</td> <td>December 16, 2003</td> </tr> <tr> <td>First Named Inventor</td> <td>Rajeev Sharma</td> </tr> <tr> <td>Art Unit</td> <td></td> </tr> <tr> <td>Examiner Name</td> <td></td> </tr> <tr> <td>Attorney Docket Number</td> <td>AI-0017-YOU</td> </tr> </table>	Application Number		Filing Date	December 16, 2003	First Named Inventor	Rajeev Sharma	Art Unit		Examiner Name		Attorney Docket Number	AI-0017-YOU
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Sheet	3	of	3	Attorney Docket Number	AI-0017-YOU

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
		N.KRANSTOEVER, S.KETTEBEKOV, M.YEASIN, & R. SHARMA, "iMAP: A Real-Time Framework for Natural Multimodal Interaction with Large Screen Displays," Dept. of Comp. Science and Eng. Technical Report CSE-02-010, Pennsylvania State University, May 2002			
		E.OSUNA, R.FREUND, & F.GIROSI, "Training Support Vector Machines: An Application to Face Detection," Proc. IEEE Conf. Computer Vision and Pattern Recognition, pp. 130-136. 1997			
		C.RIDDER, O.MUNKELT, & H.KIRCHNER. Adaptive Background Estimation and Foreground Detection using Kalman-Filtering. In Proceedings of International Conference on recent Advances in Mechatronics, ICRAM 95, UNESCO Chair on Mechatronics, 193-199, 1995			
		H.ROWLEY, S.BALUJA, & T.KANADE, "Neural Network-Based Face Detection," IEEE Trans. Pattern Analysis and Machine Intelligence, vol.20, no.1, pp.23-38, Jan. 1998			
		R.SHARMA, V.I., PAVLOVIC', & T.S.HUANG. "Toward Multimodal Human-Computer Interface" Proceedings of the IEEE (Special issue on Multimedia Computing and Communication) 86(5): 853-869, May 1998			
		C.STAUFFER & W.E.L. GRIMSON. Adaptive Background Mixture Models for Real-Time Tracking. In Computer Vision and Pattern Recognition, vol. 2. pp. 246-253, June 1999			
		M.H.YANG, D.J.KRIEGMAN, & N.AHUJA, "Detecting Faces in Images: A Survey," IEEE Trans. Pattern Analysis and Machine Intelligence, vol. 24, no. 1, Jan. 2002			

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